

1215417

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UNITED STATES DEPARTMENT OF COMMERCE

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August 22, 2004

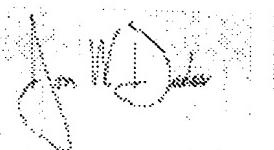
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FILING DATE.

APPLICATION NUMBER: 60/482,786

FILING DATE: June 25, 2003

RELATED PCT APPLICATION NUMBER: PCT/US04/20562

Certified by



Jon W Dudas

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## PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No.

EU245162794US

11749 U.S. PTO  
60/482786  
06/25/03

INVENTOR(S)					
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)			
Lance M. James A Darya	Cottrell Reynolds Mazandarany	San Diego, California Carlsbad, California San Diego, California			
<input checked="" type="checkbox"/> Additional inventors are being named on the <u>1</u> separately numbered sheets attached hereto					
TITLE OF THE INVENTION (500 characters max)					
<b>A MULTIPLE PLATFORM NETWORK PRIVACY SYSTEM</b>					
Direct all correspondence to: <b>CORRESPONDENCE ADDRESS</b>					
<input type="checkbox"/> Customer Number <input type="text"/>		→	<input type="checkbox"/> Place Customer Number Bar Code Label here		
OR <input type="text"/> Type Customer Number here					
<input checked="" type="checkbox"/> Firm or Individual Name <b>Francisco A. Rubio-Campos</b>					
Address <b>The Eclipse Group</b>					
Address <b>26895 Aliso Creek Road, Suite B-104</b>					
City	<b>Aliso Viejo</b>	State	<b>CA</b>	ZIP	<b>92656</b>
Country	<b>USA</b>	Telephone	<b>949-448-9410</b>	Fax	<b>714-948-8903</b>
<b>ENCLOSED APPLICATION PARTS (check all that apply)</b>					
<input checked="" type="checkbox"/> Specification <b>Number of Pages</b> <input type="text" value="13"/>		<input type="checkbox"/> CD(s), Number <input type="text"/>			
<input checked="" type="checkbox"/> Drawing(s) <b>Number of Sheets</b> <input type="text" value="4"/>		<input type="checkbox"/> Other (specify) <input type="text"/>			
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76					
<b>METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT</b>					
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.			<b>FILING FEE AMOUNT (\$)</b>		
<input checked="" type="checkbox"/> A check or money order is enclosed to cover the filing fees			<input type="text" value="502542"/>		
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: <input type="text"/>			<input type="text" value="\$80.00"/>		
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.					
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input checked="" type="checkbox"/> No.					
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____					

Respectfully submitted,

SIGNATURE 

Date **06/25/2003**

TYPED or PRINTED NAME **Francisco A. Rubio-Campos**  
 TELEPHONE **(949) 448-9410**

REGISTRATION NO.  
*(if appropriate)*  
 Docket Number:

**45,358**

**IF03002USV**

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**PROVISIONAL APPLICATION COVER SHEET**  
*Additional Page*

PTO/SB/16 (02-01)

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Docket Number	IF03002USV	
INVENTOR(S)/APPLICANT(S)		
Given Name (first and middle [if any])	Family or Surname	Residence (City and either State or Foreign Country)
Gene Nelson	Nelson	Spring Valley, California
Robert Torres	Torres	Chula Vista, California

Number 2 of 2

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17175  
06/25/03  
S. PTO

# FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 80.00)

## Complete If Known

Application Number	Unknown
Filing Date	June 25, 2003
First Named Inventor	Lance M. Cottrell et al.
Examiner Name	Not applicable
Art Unit	Unassigned
Attorney Docket No.	IF03002USV

## METHOD OF PAYMENT (check all that apply)

 Check  Credit card  Money Order  Other  None
 Deposit Account:

Deposit Account Number	502542
Deposit Account Name	The Eclipse Group

The Director is authorized to: (check all that apply)

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- Credit any overpayments
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- Charge any additional fee(s) during the pendency of this application
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- Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	80.00

SUBTOTAL (1) (\$ 80.00)

## 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X	=
			-3** =	X	=

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 0.00)

\*\* or number previously paid, if greater. For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00)

(Complete if applicable)

Name (Print/Type)	Francisco A. Rubio-Campos	Registration No. (Attorney/Agent)	45,358	Telephone	949-448-9410
Signature					
Date	June 25, 2003				

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## A MULTIPLE PLATFORM NETWORK PRIVACY SYSTEM

### INVENTORS

LANCE M. COTTRELL  
JAMES A REYNOLDS  
DARYA MAZANDARANY  
GENE NELSON  
&  
ROBERT TORRES

### BACKGROUND OF THE INVENTION

[001] **1. Field of the Invention.**

[002] This invention relates generally to network communication systems. In particular, this invention relates to an Internet privacy system capable of operating across multiple platforms.

[003] **2. Related Art.**

[004] As the global computer network known as the Internet continues to grow globally at a rapid pace, an increasing number of people and businesses from around the world are accessing the Internet for both business and personal activities. As a result, the Internet has become a virtual community where people communicate with each other by sending and receiving electronic, voice and image messages for business and pleasure. These communications include sharing ideas and information, sending personal and business message back and forth, researching information, expressing opinions and ideas both personal and political, and conducting business negotiations and transactions (generally known as "electronic commerce" or "e-commerce"). In response to this new

electronic activity, business, governments and certain individuals attempt to identify and track individual Internet users for numerous purposes including, but not limited to, advertising, market research, customizing information of Internet sites (i.e., "websites") snooping and ease dropping on communications, political and law enforcement activities, fraud and malicious activities. Many of these attempts are threats to the individual users of the Internet because they attempt to gain personal information about the user and the user's activities on the Internet (generally referred to as the user's "online activities") typically without the user's express consent or knowledge.

[005] These threats typically gain information about the user by logging a user's Internet Protocol ("IP") address (the electronic address that specifically identifies a user's computer to the network) or by installing programs or files on to the user's computer such as "cookies," ActiveX™ applications, Java™, script files, Spyware, or hostile programs such as viruses. These threats allow an outside user, be it a government, business, or individual entity, to perform such tasks as identify a user, obtaining the user's personal information that is stored on the computer (including names, address, financial, private files, and/or other confidential, private and/or sensitive information), and track the user's activities on the Internet including recording every website visited or every email sent or received by the user. Malicious programs such as viruses may also be installed on the user's computer that can modify, erase or destroy the user's operating system of personal files.

[006] Unfortunately, most people that utilize the Internet do not understand technically how networks such as the Internet function nor do they generally appreciate

the number and types of threats that they will experience once they connect (i.e., "log-on") to the Internet. Past attempts at protecting users on the internet include using "firewalls" to block certain types of threats from the Internet, virus protection programs for detecting malicious programs, and spyware and cookie file removal software. However, these past attempts do not protect a user's identity because most of these approaches attempt to disinfect a user from intruders after the fact. These past approaches do not protect a user's identity as soon as the user connects to the Internet because connected websites are able to read and identify the user's IP address among other things. A need therefore exist to protect a user's identity as soon as the user connects to the Internet (i.e., known as "surfing the web" or "surfing the Net").

**[007]** Attempts in the past at protecting the user's identity have included allowing a user to connect to an intermediate server connected to the Internet that extracted off the user's IP information and substituted it with the IP address of the intermediate server thus creating an anonymous user that could then continue to surf the Net without worrying that their IP information would be used to identify them.

**[008]** Unfortunately, this approach was too technical and difficult to operate by most Internet users. Therefore, there is a need for a privacy management system that solves the problems recited above and allows Internet users to easily maintain their privacy by utilizing an anonymous server.

**BRIEF DESCRIPTION OF THE FIGURES**

- [009] The components in the figures are not necessarily to scale, emphasis instead being placed upon illustrating the principles of the invention. In the figures, like reference numerals designate corresponding parts throughout the different views.
- [010] FIG. 1 shows a flow-chart of an example of a startup process for the AnonPro Web Server Startup Wizard Support Script.
- [011] FIG. 2 shows a flow chart of an example process for Key Validation.
- [012] FIG. 3 shows a flow chart for an example process of account creation.
- [013] FIG. 4 shows a flow-chart for an example process preformed by an AnonPro Web-Server Logon/Authentication Module.

**DETAILED DESCRIPTION**

- [014] This invention describes a method for providing Internet privacy service which shall be described in relation to example implementation herein referred to as AnonPro. AnonPro may be a specific implementation of our inventions for providing Internet privacy services. The components described in this detailed description and figures are an example implementation for some of our particular applications, however, the technologies and inventions described herein are much more general. The components are generally a network level traffic interceptor (client side), a client proxy, a server proxy, an SSL module, and some web based services (such as the user authentication, server lists, recommended site settings lists etc.). Generically speaking, the combination of the components is an "Internet privacy system." The client part is

"Internet Privacy Client", while the server proxy is "Internet Privacy remote proxy." In the description of this invention we often refer to registry entries or other specific ways of storing information. In all cases this information could be stored in any number of ways including in flat files, indexed files, local or remote databases, among others. In the description of this invention we often refer to cookies. Many other information transfer techniques could be used in place of cookies including HTML headers, changes to URLs or other addresses, any other standard or custom message or data structure. In the description of this invention we often refer to XML data structures. In general these structures could be replaced with any other kind of data structure, including other standard and non-standard, encrypted and non-encrypted structures. CA stands for "Certificate Authority" and refers to an entity or encryption key used for signing other keys such as SSL keys.

Additionally, The AnonPro Server Proxy (also known as the "Internet Privacy Remote Proxy") is a system that relays data from the client on the user's PC to the computer hosting the content or service the user is trying to access through the system's Internet Privacy System (the Destination). The proxy acts to hide the user's IP address and may perform other actions based on the content of the request or the contents of the reply from the Destination. These actions may include adding, changing, or removing text, data, information, scripts or other content from either the data from the user to the destination, or from the destination back to the user. The Internet Privacy Remote Proxy is not used in all modes of the Internet Privacy Client. In some modes the Internet Privacy Client connects directly to the Destination. Whether or not the Internet Privacy Remote Proxy is

used depends on the privacy settings the user has set for that particular site. The Internet Privacy Remote Proxy is only used if the hiding of the user's IP, or the other changes the Remote Proxy makes to the data, are required for the particular settings. Otherwise the connection is direct.

[015] This is summarized listing of the modules that may be included in the AnonPro Web-Server development. FIG. 1 shows a flow-chart of an example of a startup process for the AnonPro Web Server Startup Wizard Support Script. The process that may be a CGI script written in PERL. Its general purpose is to interface with the AnonPro client application Startup Wizard Module. The AnonPro client may make HTTPS posts to this script when the Startup Wizard Module is called. This script should determine the action to take based upon an "action" parameter.

[016] FIG. 2 shows a flow chart of an example process for Key Validation. When the AnonPro Web Server Startup Wizard Support Script receives an action parameter it may perform Key Validation. The first step of key validation may be reading in the registration key from the a parameter. The script may reference a database to find out if this key exists in the registration key table. Existence in this table will determine that this is a valid registration key. If the key exists in the database the edition that is associated with it may be retrieved as well. If this key has been previously used, it may lookup the public key that is associated with the registration key. It may then return the edition and public key to the client with the status of "used". If the key has not been previously used the script may generate a public key and store it in the database. It may then return the edition, public key, and a status of "new".

[017] FIG. 3 shows a flow chart for an example process of account creation. The account creation section may handle the creation, renewal, or reinstallation of the user's account. Account creation may be performed when an unused key is passed in with a valid and available username and password. The user may be inserted into the necessary tables in order to allow the user to use the AnonPro service. Account renewal may be performed when an unused key is passed in with the username and password of an existing user. The user's account may be then updated to reflect the upgrade in service determined by the registration key. Account reinstallation may be performed when the user is not creating a new account or upgrading/renewing an existing account, but is merely trying to activate an installation of the AnonPro client.

[018] FIG. 4 shows a flow-chart for an example process preformed by an AnonPro Web-Server Logon/Authentication Module. The AnonPro Web Server Login Script may handle user authentication for the AnonPro client. The AnonPro client may make a silent HTTPS post to the Login Script. In this post the AnonPro client may pass in the username and password of the user to be authenticated. This script may determine the status of the user and set the necessary cookies in order for the user to be able to use the AnonPro service.

[019] As an example of operation, the AnonPro Web-Server Logon/Authentication Module script first checks to determine whether the uname ("username") and passwd ("password") parameters have been passed in. If they are not passed in, it checks for the existence of an APMeta-Auth cookie. The username and password would then be extracted from the APMeta-Auth cookie and the script would proceed as normal. In the

event that the username and password are not passed in and there is no APMeta-Auth cookie, the script may return an “invalid” status and exit.

[020] The script then connects to the Anonymizer database and searches for a user with the given username and password. If a user is not found with the given information the script may return a status of “invalid”. If the user is found, the script then checks to see if the user has an active AnonPro account. If the user does not have an AnonPro account or has an expired AnonPro account the script may return the status of “expired” (When the AnonPro client receives an “expired” status it should inform the user.). If the user owns an account that is not expired for some other reason is not active, the script may return a status of “inactive”.

[021] If it has been determined that the user has an active AnonPro account it may proceed in setting the necessary authorization cookies. The APAuth cookie is what the AnonPro Proxy Servers may check in order to authenticate the user. It typically has approximately a two-hour lifetime. It typically contains the type of service of the user’s account, the possibly encrypted username, the timestamp for expiration (epoch time), and a hash which verifies the authenticity of the cookie. The APMeta-Auth cookie may allow the AnonPro Proxy servers the ability to redirect to the Login Script and receive authentication without interaction with the AnonPro client. The APMeta-Auth cookie may contain the encrypted username and the uid (i.e., “user id”) of the user.

[022] The processes described in may be performed by hardware or software. If the process is performed by software, the software may reside in software memory (not shown) in the controller, memory, or an removable memory medium. The software in

memory may include an ordered listing of executable instructions for implementing logical functions (i.e., "logic" that may be implemented either in digital form such as digital circuitry or source code or in analog form such as analog circuitry or an analog source such as an analog electrical, sound or video signal), may selectively be embodied in any computer-readable (or signal-bearing) medium for use by or in connection with an instruction execution system, apparatus, or device, such as a computer-based system, processor-containing system, or other system that may selectively fetch the instructions from the instruction execution system, apparatus, or device and execute the instructions. In the context of this document, a "computer-readable medium" and/or "signal-bearing medium" is any means that may contain, store, communicate, propagate, or transport the program for use by or in connection with the instruction execution system, apparatus, or device. The computer readable medium may selectively be, for example but not limited to, an electronic, magnetic, optical, electromagnetic, infrared, or semiconductor system, apparatus, device, or propagation medium. More specific examples "a non-exhaustive list" of the computer-readable medium would include the following: an electrical connection "electronic" having one or more wires, a portable computer diskette (magnetic), a RAM (electronic), a read-only memory "ROM" (electronic), an erasable programmable read-only memory (EPROM or Flash memory) (electronic), an optical fiber (optical), and a portable compact disc read-only memory "CDROM" (optical). Note that the computer-readable medium may even be paper or another suitable medium upon which the program is printed, as the program can be electronically captured, via for instance optical scanning of the paper or other medium, then compiled, interpreted or

otherwise processed in a suitable manner if necessary, and then stored in a computer memory.

[023] In general, the system described provides for Consensual Man in the Middle Attack by using used to rewrite pages, on the fly creation of site SSL certificates, CA cert to sign all SSL site certificates, CA cert is generated per user, CA cert is automatically installed in the browser and SSL page rewriting. Where the SSL page rewriting included the Client decrypting SSL pages to rewrite before re-encrypting and sending to proxy or end web site.

[024] The system also provides for the Client to Insert information into data stream from browser to Internet through any kind of Header or by inserting cookies. The cookies may include authentication / access rights information and preferences information and utilize XML and encryption.

[025] The system may also provides for a TCP level hook for privacy service that includes the Hook redirecting traffic to a local proxy on the user's machine, the Client proxy redirecting traffic to Anonymizer proxy and the TCP hook allows IP hiding.

[026] The system may also provides for a Full time SSL without URL prefixing.

[027] The system may also provides for making cookies session only and/or change cookie expiration date.

[028] The system may also provides for gathering and generation Privacy Statistics that include Per site privacy statistics, a Privacy Analyzer real time threat display, and automated site threat analysis and rating.

- [029] The system may also provides for setting per site privacy settings that include white lists, black lists, detailed custom settings, "Show details" functionality, recommended site settings list that include automatically updated and downloaded settings, and hard coded Site settings that can't be changed by user have preset defaults and an exception list for some sites.
- [030] The system may also provides for the Client to keep a list of alternate access names / IP addresses for accessing servers. The Client may tries all addresses one after another and/or each user gets a different set of access addresses.
- [031] The system may also provides allows install on many computers while detect and prevent multiple simultaneous users.
- [032] The system may also provides allows Client Javascript [script] rewriting.  
The system utilizes a novel GUI design to manage information.
- [033] While various embodiments of the application have been described, it will be apparent to those of ordinary skill in the art that many more embodiments and implementations are possible that are within the scope of this invention. Accordingly, the invention is not to be restricted except in light of the attached claims and their equivalents. The foregoing description of an implementation has been presented for purposes of illustration and description. It is not exhaustive and does not limit the claimed inventions to the precise form disclosed. Modifications and variations are possible in light of the above description or may be acquired from practicing the invention. For example, the described implementation includes software but the invention may be implemented as a combination of hardware and software or in hardware

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Filing Date: June 25, 2003

PATENT  
Docket No. IF03002USV

alone. Note also that the implementation may vary between systems. The claims and their equivalents define the scope of the invention.

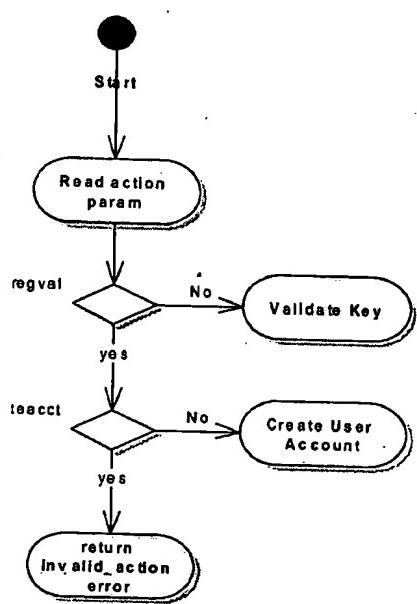
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Docket No. IF03002USV

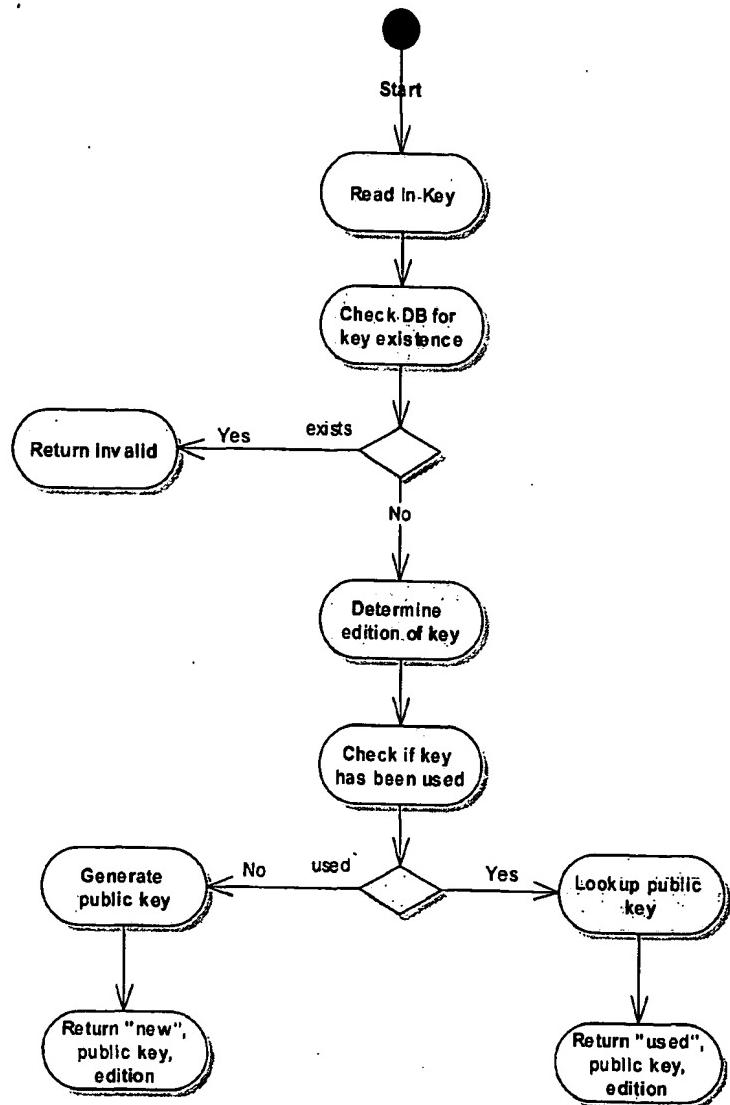
## CLAIMS

### What is claimed is:

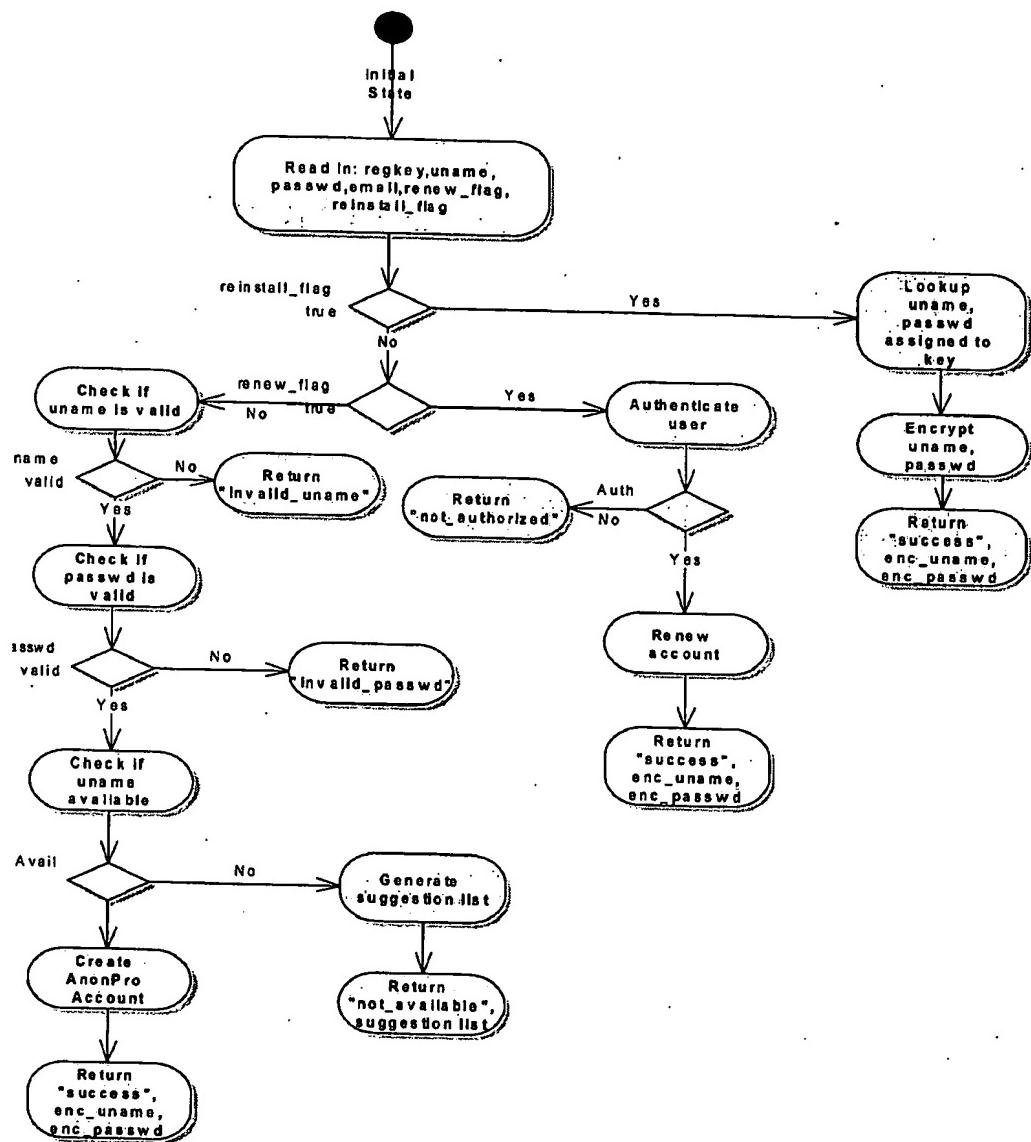
1. A method for allowing a user to connect to a privacy network comprising:  
connecting to the network;  
receiving a user name and password from a user; and  
determining whether the user account is valid.



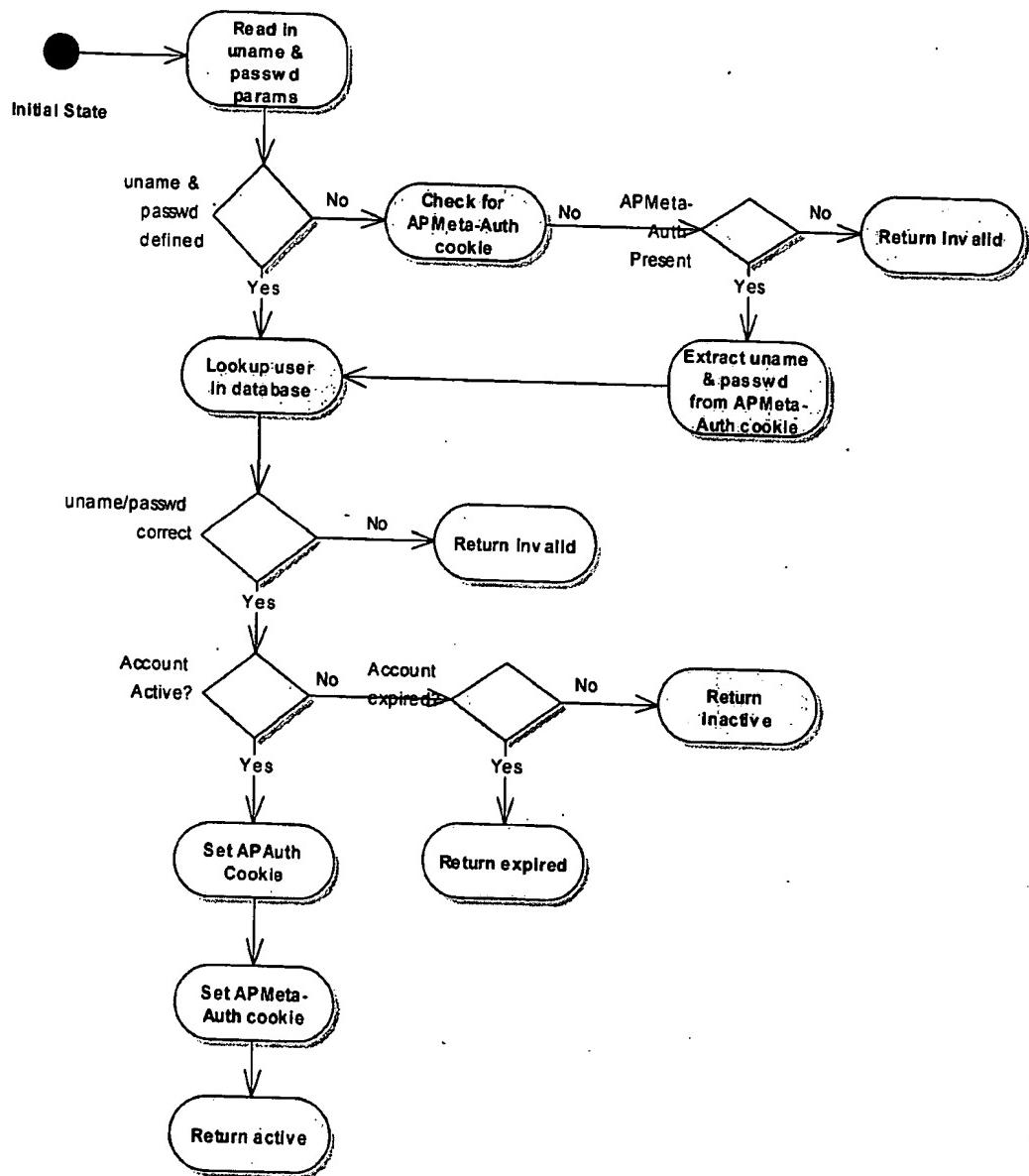
**FIG. 1**



**FIG. 2**



**FIG. 3**



**FIG. 4**

# **Document made available under the Patent Cooperation Treaty (PCT)**

International application number: PCT/US04/020562

International filing date: 25 June 2004 (25.06.2004)

Document type: Certified copy of priority document

Document details: Country/Office: US  
Number: 60/482,786  
Filing date: 25 June 2003 (25.06.2003)

Date of receipt at the International Bureau: 02 September 2004 (02.09.2004)

Remark: Priority document submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b)



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